

Title (en)

HEARING ASSISTANCE DEVICE WITH BEAMFORMER OPTIMIZED USING A PRIORI SPATIAL INFORMATION

Title (de)

HÖRHILFEVORRICHTUNG MIT STRAHLFORMER MIT OPTIMIERTER RÄUMLICHER A PRIORI-INFORMATION

Title (fr)

DISPOSITIF D'AIDE AUDITIVE AVEC FORMEUR DE FAISCEAUX OPTIMISÉ À L'AIDE D'INFORMATIONS SPATIALES A PRIORI

Publication

EP 2986026 B2 20220921 (EN)

Application

EP 15180702 A 20150812

Priority

US 201462036361 P 20140812

Abstract (en)

[origin: EP2986026A1] A hearing assistance system includes an adaptive binaural beamformer based on a multichannel Wiener filter (MWF) optimized for noise reduction and speech quality criteria using a priori spatial information. In various embodiments, the optimization problem is formulated as a quadratically constrained quadratic program (QCQP) aiming at striking an appropriate balance between these criteria. In various embodiments, the MWF executes a low-complexity iterative dual decomposition algorithm to solve the QCQP formulation.

IPC 8 full level

G10L 21/0208 (2013.01); **G10L 21/0216** (2013.01); **H04R 3/00** (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP US)

G10L 21/0208 (2013.01 - EP US); **H04R 3/005** (2013.01 - EP US); **H04R 25/407** (2013.01 - EP US); **H04R 25/505** (2013.01 - US); **H04R 25/552** (2013.01 - US); **G10L 2021/02166** (2013.01 - EP US); **H04R 2203/12** (2013.01 - US); **H04R 2225/43** (2013.01 - US); **H04R 2430/25** (2013.01 - EP US); **H04R 2460/01** (2013.01 - US)

Citation (opposition)

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2986026 A1 20160217; EP 2986026 B1 20180131; EP 2986026 B2 20220921; DK 2986026 T3 20180507; US 2016050500 A1 20160218;
US 9949041 B2 20180417

DOCDB simple family (application)

EP 15180702 A 20150812; DK 15180702 T 20150812; US 201514819875 A 20150806